

Recombinant Mouse Itpa Protein, Myc/DDK-tagged

Cat. No. Itpa-3618M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length inosine triphosphatase (nucleoside triphosphate pyrophosphatase) (Itpa), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Pyrophosphatase that hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP), deoxyinosine triphosphate (dITP) as well as 2'-deoxy-N-6-hydroxylaminopurine triphosphate (dHAPTP) and xanthosine 5'-triphosphate (XTP) to their respective monophosphate derivatives. The enzyme does not distinguish between the deoxy- and ribose forms. Probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions.
Molecular Mass	21.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Itpa inosine triphosphatase \(nucleoside triphosphate pyrophosphatase\) \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Itpa](#)

Synonyms ITPA; inosine triphosphatase (nucleoside triphosphate pyrophosphatase); inosine triphosphate pyrophosphatase; ITPase; NTPase; nucleoside-triphosphate diphosphatase; non-standard purine NTP pyrophosphatase; nucleoside triphosphate pyrophosphatase; nucleoside-triphosphate pyrophosphatase; non-canonical purine NTP pyrophosphatase; Itp; AU020102; 2010016I08Rik

Gene ID [16434](#)

mRNA Refseq [NM_025922](#)

Protein Refseq [NP_080198](#)

UniProt ID [Q9D892](#)

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